

SEQUENCE LISTING

<110> Farese, Robert V.
Cases, Sylvaine
Smith, Steven
Erickson, Sandra

<120> Diacylglycerol O-Acyltransferase

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<150> 10/040,315

<151> 2001-10-29

<150> 60/107,771

<151> 1998-11-09

<150> PCT/US98/17883

<151> 1998-08-28

<150> 09/103,754

<151> 1998-06-24

<150> 09/339,472

<151> 1999-06-23

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<211> 386

<212> PRT

<213> homo sapiens

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Glu	Lys	Arg	Leu	Ala	Val	Gly	Ala	Leu	Thr	Glu	Gln	Ala	Gly	Leu	Leu
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Lys	Ala	Ser	Ser	Val	Ala	Ala	Pro	His	Thr	Val	Ser	Tyr	Pro	Asp	Asn
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Ala	Val	Pro	Asn	His	Leu	Ile	Trp	Leu	Ile	Phe	Phe	Tyr	Trp	Leu	Phe
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His	Ser	Cys	Leu	Asn	Ala	Val	Ala	Glu	Leu	Met	Gln	Phe	Gly	Asp	Arg
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Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu Val Ser Val Pro
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 Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly Asn Tyr Gly Asn
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 Glu Ala
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 <213> homo sapiens

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 Pro Ala Pro Asn Lys Asp Gly Asp Ala Gly Val Gly Ser Gly His Trp
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 Glu Leu Arg Cys His Arg Leu Gln Asp Ser Leu Phe Ser Ser Asp Ser
 65 70 75 80
 Gly Phe Ser Asn Tyr Arg Gly Ile Leu Asn Trp Cys Val Val Met Leu
 85 90 95
 Ile Leu Ser Asn Ala Arg Leu Phe Leu Glu Asn Leu Ile Lys Tyr Gly
 100 105 110
 Ile Leu Val Asp Pro Ile Gln Val Val Ser Leu Phe Leu Lys Asp Pro
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 His Ser Trp Pro Ala Pro Cys Leu Val Ile Ala Ala Asn Val Phe Ala
 130 135 140
 Val Ala Ala Phe Gln Val Glu Lys Arg Leu Ala Val Gly Ala Leu Thr
 145 150 155 160
 Glu Gln Ala Gly Leu Leu Leu His Val Ala Asn Leu Ala Thr Ile Leu
 165 170 175
 Cys Phe Pro Ala Ala Val Val Leu Leu Val Glu Ser Ile Thr Pro Val
 180 185 190
 Gly Ser Leu Leu Ala Leu Met Ala His Thr Ile Leu Phe Leu Lys Leu
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 Phe Ser Tyr Arg Asp Val Asn Ser Trp Cys Arg Arg Ala Arg Ala Lys
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 Ala Ala Ser Ala Gly Lys Lys Ala Ser Ser Ala Ala Ala Pro His Thr
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 Val Ser Tyr Pro Asp Asn Leu Thr Tyr Arg Asp Leu Tyr Tyr Phe Leu
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 Gln Asn Ser Met Lys Pro Phe Lys Asp Met Asp Tyr Ser Arg Ile Ile
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Trp	Met	Ala	Arg	Thr	Gly	Val	Phe	Leu	Ala	Ser	Ala	Phe	Phe	His	Glu		
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Gln	Gly	Asn	Tyr	Gly	Asn	Ala	Ala	Val	Trp	Leu	Ser	Leu	Ile	Ile	Gly		
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Gln	Pro	Ile	Ala	Val	Leu	Met	Tyr	Val	His	Asp	Tyr	Tyr	Val	Leu	Asn		
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<211> 498

<212> PRT

<213> mus musculus

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Gln	Asp	Ser	Leu	Phe	Ser	Ser	Asp	Ser	Gly	Phe	Ser	Asn	Tyr	Arg	Gly		
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 Tyr Lys Pro Met Leu Arg His Gly Ser Ser Lys Trp Val Ala Arg Thr
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 450 455 460
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<210> 9
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 <212> DNA
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<210> 10
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35          40          45
Ala Pro Ala Pro Ala Pro Ala Pro Ala His Thr Arg Asp Lys Asp Gly
50          55          60
Arg Thr Ser Val Gly Asp Gly Tyr Trp Asp Leu Arg Cys His Arg Leu
65          70          75          80
Gln Asp Ser Leu Phe Ser Ser Asp Ser Gly Phe Ser Asn Tyr Arg Gly
85          90          95
Ile Leu Asn Trp Cys Val Val Met Leu Ile Leu Ser Asn Ala Arg Leu
100         105         110
Phe Leu Glu Asn Leu Ile Lys Tyr Gly Ile Leu Val Asp Pro Ile Gln
115         120         125
Val Val Ser Leu Phe Leu Lys Asp Pro Tyr Ser Trp Pro Ala Pro Cys
130         135         140
Val Ile Ile Ala Ser Asn Ile Phe Val Val Ala Ala Phe Gln Ile Glu
145         150         155         160
Lys Arg Leu Ala Val Gly Ala Leu Thr Glu Gln Met Gly Leu Leu Leu
165         170         175
His Val Val Asn Leu Ala Thr Ile Ile Cys Phe Pro Ala Ala Val Ala
180         185         190
Leu Leu Val Glu Ser Ile Thr Pro Val Gly Ser Val Phe Ala Leu Ala
195         200         205
Ser Tyr Ser Ile Met Phe Leu Lys Leu Tyr Ser Tyr Arg Asp Val Asn
210         215         220
Leu Trp Cys Arg Gln Arg Arg Val Lys Ala Lys Ala Val Ser Thr Gly
225         230         235         240
Lys Lys Val Ser Gly Ala Ala Ala Gln Gln Ala Val Ser Tyr Pro Asp
245         250         255
Asn Leu Thr Tyr Arg Asp Leu Tyr Tyr Phe Ile Phe Ala Pro Thr Leu
260         265         270

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Cys	Tyr	Glu	Leu	Asn	Phe	Pro	Arg	Ser	Pro	Arg	Ile	Arg	Lys	Arg	Phe	275	280	285
Leu	Leu	Arg	Arg	Val	Leu	Glu	Met	Leu	Phe	Phe	Thr	Gln	Leu	Gln	Val	290	295	300
Gly	Leu	Ile	Gln	Gln	Trp	Met	Val	Pro	Thr	Ile	His	Asn	Ser	Met	Lys	305	310	315
Pro	Phe	Lys	Asp	Met	Asp	Tyr	Ser	Arg	Ile	Ile	Glu	Arg	Leu	Leu	Lys	325	330	335
Leu	Ala	Val	Pro	Asn	His	Leu	Ile	Trp	Leu	Ile	Phe	Phe	Tyr	Trp	Phe	340	345	350
Phe	His	Ser	Cys	Leu	Asn	Ala	Val	Ala	Glu	Leu	Leu	Gln	Phe	Gly	Asp	355	360	365
Arg	Glu	Phe	Tyr	Arg	Asp	Trp	Trp	Asn	Ala	Glu	Ser	Val	Thr	Tyr	Phe	370	375	380
Trp	Gln	Asn	Trp	Asn	Ile	Pro	Val	His	Lys	Trp	Cys	Ile	Arg	His	Phe	385	390	395
Tyr	Lys	Pro	Met	Leu	Arg	His	Gly	Ser	Ser	Lys	Trp	Val	Ala	Arg	Thr	405	410	415
Gly	Val	Phe	Leu	Thr	Ser	Ala	Phe	Phe	His	Glu	Tyr	Leu	Val	Ser	Val	420	425	430
Pro	Leu	Arg	Met	Phe	Arg	Leu	Trp	Ala	Phe	Thr	Ala	Met	Met	Ala	Gln	435	440	445
Val	Pro	Leu	Ala	Trp	Ile	Val	Gly	Arg	Phe	Phe	Gln	Gly	Asn	Tyr	Gly	450	455	460
Asn	Ala	Ala	Val	Trp	Val	Thr	Leu	Ile	Ile	Gly	Gln	Pro	Val	Ala	Val	465	470	475
Leu	Met	Tyr	Val	His	Asp	Tyr	Tyr	Val	Leu	Asn	Tyr	Asp	Ala	Pro	Val	485	490	495
Gly	Val																	